

said layer (B1) comprises a fluoropolymer (B111) or a polymer (B112) consisting essentially of alkyl(meth)acrylate units or a blend of the two, said layer (B2) is based on polyamide with amine end groups, said layer (B3) consists of a polyolefin functionalized with an unsaturated carboxylic anhydride, and said layer (B4) comprises polyolefin.

2. (Amended) The film according to Claim 1, wherein said layer (A1) is replaced with two layers (A11) and (A12), the order of the layers being as follows:

• (A11), + (A12), + optional (A2), + optional (B1), + (B2), + (B3), + and optional (B4).

3. (Amended) The film according to claim 1, wherein said fluoropolymers (B111) and (A111) are PVDF.

4. (Amended) The film according to claim 1, wherein said polymers (B112) and (A112) are PMMA.

5. (Amended) The film according to claim 1, wherein the polyamide of said layer(B2) is chosen from PA 6, PA 12, and PA 6/6-6.

6. (Amended) The film according to claim 1, wherein the functionalized polyolefin of the layer (B3) is grafted polypropylene optionally diluted with polypropylene, EPR rubber, EPDM rubber or copolymers of propylene and of an  $\alpha$ -olefin.

7. (Amended) The film according to claim 1, wherein the functionalized polyolefin of the layer (B3) results from a co-grafting of a blend of polypropylene and of EPR or EPDM.

8. (Amended) The film according to any claim 1, wherein the functionalized polyolefin of the layer (B3) is a blend comprising, by weight:

- 0 to 50% of at least one polyethylene or one ethylene copolymer,
  - 50 to 100% of at least one polymer chosen from polypropylene or a propylene copolymer, poly(1-butene) homopolymer or copolymer and polystyrene homopolymer or copolymer,
  - wherein said blend is grafted with an unsaturated carboxylic anhydride,
- and
- wherein said blend is optionally diluted in at least one polyolefin essentially comprising propylene units or in at least one polymer of elastomeric nature or in a blend thereof.

9. (Amended) The film according to claim 1, wherein the polyolefin of layer (B4) is polypropylene.

10. (Amended) A substrate coated with a film according to claim 1, wherein the layer (B3), is next to the substrate.

11. (Amended) The substrate according to Claim 10, comprised of polypropylene.

Please **add** the following NEW claims:

12. The film according to claim 1, comprising a layer (B1).

13. The film according to claim 1, comprising a layer (B4).

14. The film according to claim 2, comprising a layer (A2).

15. The film according to claim 2, comprising a layer (B4).

16. The film according to claim 8, wherein the functionalized polyolefin of the layer (B3) is a blend comprising, by weight 10 to 40% of at least one polyethylene or one ethylene copolymer, 60 to 90% of at least one polymer chosen from polypropylene or a propylene copolymer, poly(1-butene) homopolymer or copolymer and polystyrene homopolymer or copolymer, wherein said blend is grafted with an unsaturated carboxylic anhydride, and wherein said grafted blend is optionally diluted in at least one polyolefin essentially comprising propylene units or in at least one polymer or elastomeric nature or in a blend thereof.

17. The film according to claim 8, wherein said grafted blend is diluted in at least one polyolefin essentially comprising propylene units or in at least one polymer of elastomeric nature or in a blend thereof.

18. The film according to claim 1 produced by a process of co-extrusion.

19. The film according to claim 18, wherein said process of co-extrusion is used to produce at least two layers of said film.

20. The film according to claim 1, wherein said layers contain impact modifiers, pigments, inks or additives.

21. The film according to claim 20, wherein said additive is a UV absorber or antioxidant.

22. The film according to claim 2, wherein layers (A11) and (A12) comprise a blend of polymers, exhibiting a transparent, glossy surface which is resistant to chemical or external attack or to UV.

23. The film according to claim 1, wherein said layer (A1) has a thickness of 1 to

200  $\mu\text{m}$ .

24. The film according to claim 23, wherein said layer (A1) has a thickness of 5 to 140  $\mu\text{m}$ .

25. The film according to claim 1 comprising fluoropolymer (A111) selected from the group consisting of: PVDF, vinylidene fluoride (VF2) homopolymer, vinylidene fluoride copolymers, trifluoroethylene (VF3) homopolymers and copolymers, and copolymers combining residues of chlorotrifluoroethylene, tetrafluoroethylene, hexafluoropropylene, and/or ethylene units and optionally VF2 and/or VF3.

26. The film according to claim 25, wherein said fluoropolymer (A111) is a blend of polymers.

27. The film according to claim 1, wherein said (A112) polymers comprise acid, acid chloride, alcohol, or anhydride functions.

28. The film according to claim 1, wherein said film is anisotropic.

29. The film according to claim 1, wherein said layer (B3) is between 10 and 250  $\mu\text{m}$ .

30. The film according to claim 29, wherein said layer (B3) is between 40 and 110  $\mu\text{m}$ .

31. The film according to claim 1, wherein said layer (B4) is between 400 and 800  $\mu\text{m}$ .

32. The film according to claim 31, wherein said layer (B4) is between 500 and 600  $\mu\text{m}$ .

33. A coated substrate produced by insert molding, co-extrusion, layering or hot-press molding a film according to claim 1 on said substrate.

34. The film according to claim 1, wherein said layers (A) and (B) are manufactured separately and hot-assembled.

*Cont*  
*35*  
35. A process for producing a thermoforming multilayer film comprising co-extruding said layers of claim 1.

*A2*  
*36*  
36. A process for producing a thermoforming multilayer film comprising co-extruding at least two of said layers according to claim 1 and then layering on separately remaining said layers.

*37*  
37. A substrate coated with a film according to claim 1, wherein the layer (B4) is next to the substrate.

*38*  
38. The film according to claim 8, wherein the functionalized polyolefin of the layer (B3) is a blend comprising, by weight:  
0 to 50% of at least one polyethylene or one ethylene copolymer, and  
50 to 100% of polypropylene.

*39*  
39. The film according to claim 16, wherein the functionalized polyolefin of the layer (B3) is a blend comprising, by weight:  
0 to 10 to 40% of at least polyethylene or one ethylene copolymer, and  
60 to 90% of polypropylene.